

## Review Form 1.7

Journal Name:	<b>Asian Journal of Fisheries and Aquatic Research</b>
Manuscript Number:	<b>Ms_AJFAR_100556</b>
Title of the Manuscript:	<b>Inhibitory Power Effect of Star Fruit Extract (<i>Averrhoa bilimbi</i> Linn) Against <i>Vibrio cholera</i> of Tuna</b>
Type of the Article	<b>Original Research Article</b>

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajfar.com/index.php/AJFAR/editorial-policy> )

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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>Yes</p> <p>Yes</p> <p>Can be improved</p> <p>Fair</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>	<p style="text-align: center;"><b>FEEDBACK</b></p> <p>1. There are many Grammatical errors which are to be corrected.</p> <p>2. Many spelling mistakes are to be corrected.</p> <p>Eg:-</p> <p><b>Study design:</b> This research was carried out in 2 stages, namely: ( 1) determine the ethanol concentration and temperature to produce the best extract and (2) determine the antibacterial power of the extract against Vibrio cholera - BSIL Randomized block design (RBD) with two factors, namely 1 (ethanol concentration 96 and 70%) and 2 (temperature extraction 30, 40 and 50<sup>0</sup> C. Variance analisis was used for analyzing data and further tests were carried out with Honest Significant Difference.</p>	

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- April 2022

**Results:** the best quality ( $P < 0,05$ ) of star fruit extract by 96% ethaol as: yield (77%), total flavonoids (7.10%), total tannins (0.914 mg Q (34.24%). and with a concentration of 80% the extract was able to of Vibrio cholera (VC-BSIL) with very strong criteria (inhibition zone mm).

**Keywords:** Star fruit, Ekstrak, Tuna, Vibrio cholera

There are other spelling mistakes also in other places in the manuscript

3.

Table 2. The average value of total flavonoids (%) of star fruit extract in the treatment ethanol concentration and extraction temperature.

Ethanol Concentration	Ectraction temperature		
	30°C	40°C	50°C
96%	7,10 ± 0,65a	4,96 ± 0,29c	4,38 ± 0,38d
70%	6,6 ± 0,24b	6,48 ± 0,40b	6,47 ± 1,35b

Description: Different letters behind the mean value indicate significant difference in the BNJ Tukey test with a 95% confidence interval

\*few numbers are typed ,few looks copy and paste.

Comma or Point to be used

4.

**Results:** the best quality ( $P < 0,05$ ) of star fruit extract by 96% ethaol at 30°C , such as: yield (77%), total flavonoids (7.10%), total tannins (0.914 mg QE /g) , total acids (34.24%). and with a concentration of 80% the extract was able to inhibit the growth of Vibrio cholera (VC-BSIL) with very strong criteria (inhibition zone diameter . 20.78 mm).

0.05 would be appropriate.why is a comma?

5.

**Antibacterial activity test of the extract against Vibrio cholerae**

The sterile disc paper with a diameter of 6 mm is dripped with the best extract which has been diluted with a concentration of 20, 40, 60, 80 and 100% until completely wetted, let stand until the extract is completely absorbed. The control solution used in this experiment was distilled water as a negative control and tetracycline as a positive control. Tetracycline was chosen as the positive control in this study because this antibiotic is a selective antibiotic for the test bacteria. The disc paper was then placed on the surface of the media according to the specified position, each treatment was repeated 3 times. The media was incubated at 37°C for 1x24 hours. Furthermore, the inhibition zone formed (clear zone around the disc) was observed which showed no bacterial growth (Buldani et al., 2017). This shows that star fruit extract has bioactive compounds that act as antibacterial inhibiting the growth of Vibrio cholerae (VC-SFIL).

How was the stock broth solution made?

What MacFarland standard was used to prepare V. cholerae?

Antibiotic susceptibility test was done on which media?

6.

cholerae		
Concentration Treatment)	The Inhibition Diameter (mm)	Inhibition Category
20%	12,63 ± 0,11c	Strong
40%	13,43 ± 0,23b	Strong
60%	14,21 ± 0,28b	Strong
80%	20,78 ± 0,36a	Very strong
100%	19,01 ± 0,69a	Strong

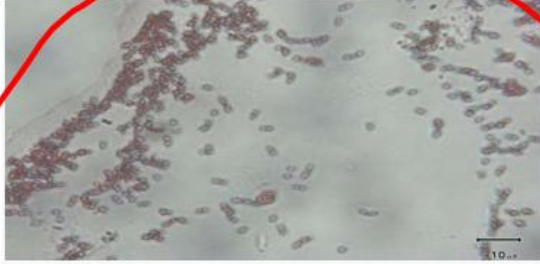
The total Vibrio cholerae used in this study was 2.24 x 10<sup>7</sup>CFU/ml. The inhibition zone on TCBS media appeared after 24 hours of storage. The formation of an inhibition zone indicates that star fruit extract has bioactive compounds that act as antibacterial compounds, so that they can inhibit the growth of Vibrio cholerae (Figure 4).



It should be 10<sup>7</sup>cfu/ml and not 10<sup>7</sup> cfu/ml

7.What was the zone size of tetracycline when compared to the most worked concentration of the

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	<p>extract against <i>V. cholerae</i>?</p> <p>8. The shape of the cell in <i>Vibrio cholerae</i> shows the form of bacilli, gram negative, with a length of 2-4 <math>\mu\text{m}</math> and a crooked rod-shaped like a comma ( . Figure 3.)</p>  <p>Figure 3. Morphology of <i>Vibrio cholerae</i> under a microscope at 1000x magnification.</p> <p>Gram's Staining photo is not clear.</p>	
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**PART 2:**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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